

Applicant: Kaisa Putkisto et al.
Application No.: 10/507,417
Response to Office action dated Feb. 14, 2006
Response dated March 10, 2006

In the Specification

Please amend the title as follows:

Method for ~~Treating Powdery Particles~~ Electrostatic Coating of a Paper Web

Please amend paragraph [0019] as follows:

[0019] The first embodiment of the invention is to pre-charge the particles of the coating powder when they are about to arrive into the final electric field. The pre-charging process is conducted in such a way that at least one charging electrode comprising a feeding nozzle is located farther away from the substrate to be coated than other charging electrodes. The dry powder is led to the charging electrode, and particles of the dry powder are charged by the charging electrode. After that the pre-charged particles enter to the final electric field formed by the other charging electrodes, for example corona charging electrodes, on the same side of the substrate and a grounding electrode, or an electrode having an opposite sign on the opposite side of the substrate. The pre-charged particles are blown towards a substrate to be coated. The substrate is preferably in a web form. The grounding electrode can be a stationary platy electrode, or it can be a roll rotating about its axis. The rotating roll is a preferred choice.

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Please amend paragraph [0021] as follows:

[0021] Particles may also be charged by triboelectric charging, for example charging the particles by a friction between the particles, and walls of a transfer pipe, or a storage bin. After that the particles enter to another charging unit, which conducts the final charging of the particles. The final electric field is formed by electrodes at opposite sides of the substrate. The electrodes can be corona charging electrodes and a grounding electrode[.,,]; other suitable electrodes and a grounding electrode[.,,]; or electrodes being [[in]] of different potentials at opposite sides of the substrate. The pre-charged particles are blown towards a substrate to be coated through a nozzle.

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Please amend paragraph [0025] as follows:

[0025] According to Fig. 1, a dry powder is led to a charging electrode 1 comprising a feeding nozzle. Particles of the dry powder are charged by the charging electrode 1. The charging electrode is located farther from the substrate 4 than other electrodes 2 so that the particles are pre-charged when they enter to the final electric field formed by the corona charging electrodes 1, 2 and a grounding electrode 3. The pre-charged particles are blown towards a substrate 4 to be coated. The substrate 4 is preferably in a web form. The grounding electrode 3 can be a stationary platy electrode, or it can be a roll rotating about its axis. The rotating roll is a preferred choice.